CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/LG/W.No.10/CSR-03/897b/CEMENT/2018-19 Date: 02.03.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
*** Name of Work**	:	Providing and fixing Street Name Boards in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement
Sample Received on	:	01.03.2019
Period of Testing	:	01.03.2019 to 02.03.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	345 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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AEE (VBP) SD

Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/LG/W.No.10/CSR-03/897b/SAND-Gradation/2018-19 02.03.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of Work	:	Providing and fixing Street Name Boards in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	01.03.2019
Date of Testing	:	02.03.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.30	90-100	90-100	90-100	95-100
2.36	82.70	60-95	75-100	85-100	95-100
1.18	60.40	30-70	55-90	75-100	90-100
600 Micron	36.60	15-34	35-59	60-79	80-100
300 Micron	21.20	5-20	8-30	12-40	15-50
150 Micron	4.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Pooja K.L.

Sunitha .N.L
AE W10

****

AEE (VRP) SD

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/LG/W.No.10/CSR-03/897b/AGG/GR/2018-19 02.03.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of Work	:	Providing and fixing Street Name Boards in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	01.03.2019
Date of Testing	:	02.03.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.50	95-100	85-100
10	40.48	25-55	0-20
4.75	6.44	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Civil-Tech Consultants & Engineers Bangalore

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AE W10

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Job No.: CTCE/BBMP/LG/W.No.10/CSR-03/897b/Cube/2019-20 12.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. L. Gangadhar,** No.02, 2nd Cross, Lingappa Block, Thimmaiah Garden, R.T. Nagara, Bangalore – 560 032.
* Name of the work	:	Providing and fixing Street Name Boards in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.135	485.6	21.58
2	15.03.2019	12.04.2019	8.213	512.4	22.77
3	15.03.2019	12.04.2019	8.320	493.8	21.95

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Scrutiny N K
AE W10

AEE (VRP) SD

Pooja K.L.
M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/LG/W.No.10/CSR-03/897b/Cube/2019-20 12.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.357	474.8	21.10
2	15.03.2019	12.04.2019	8.498	480.9	21.37
3	15.03.2019	12.04.2019	8.293	507.8	22.57

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwarsnagar,
Bangalore-560079.

Sunitha.N.R
AE W10

AEE (VRP) SD

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.175	485.7	21.59
2	15.03.2019	12.04.2019	8.209	512.2	22.76
3	15.03.2019	12.04.2019	8.392	522.4	23.22

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M/s. Civil-Tech Consultants & Engineers
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Basaveshwarsnagar,
Bangalore-560079.

Sunith.N.K
AE W10

AEE (VRP) SD